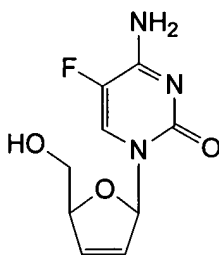


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

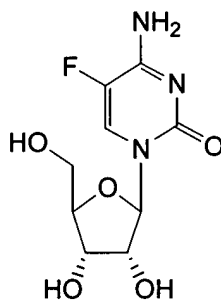
Claim 1 (previously presented): A process for the preparation of a compound of Formula (IV):



(IV)

comprising:

(1) contacting a compound of Formula (I):



(I)

with an acyl halide of Formula Q-C(=O)X, wherein:

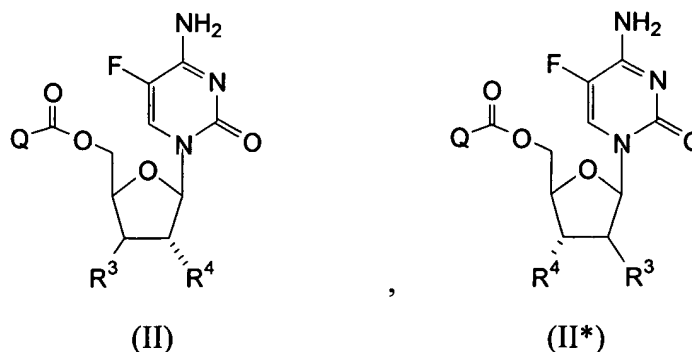
Q is 2-(R¹CH₂CO₂)phenyl-, R¹CH₂-, or R¹CH₂C(=O)OC(R²)₂-;

X is Cl, Br, or I;

R¹ is H or C₁-C₆ alkyl;

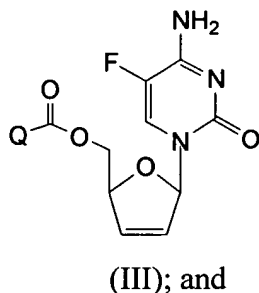
R², at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a compound of Formula (II), a compound of Formula (II*), or a mixture of compounds of Formula (II) and (II*):



wherein R³ is X; and R⁴ is R¹CH₂C(=O)O-;

(2) contacting the compound of Formula (II), the compound of Formula (II*), or the mixture of compounds of Formula (II) and (II*); with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III):



(3) contacting the compound of Formula (III) with a suitable base to form the compound of Formula (IV).

Claim 2 (previously presented): The process of Claim 1 for the preparation of a compound of Formula (IV), wherein:

in step (1) the acyl halide of Formula Q-C(=O)X comprises:

2-acetoxy-2-methyl-propionyl bromide, 2-(acetoxy)-2-methyl-butanoyl bromide, 2-(acetoxy)-2-ethyl-butanoyl bromide, or 2-(acetoxy)-2-methyl-pentanoyl bromide;

in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether,

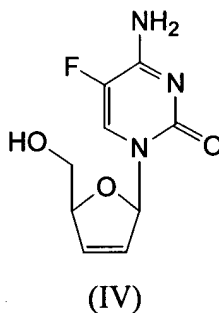
dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and

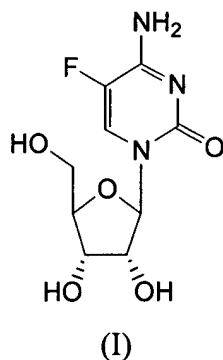
in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

Claim 3 (previously presented): The process according to Claim 1, for the preparation of a compound of Formula (IV):

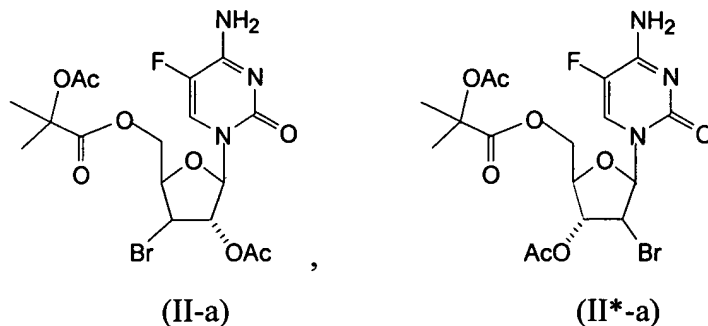


comprising:

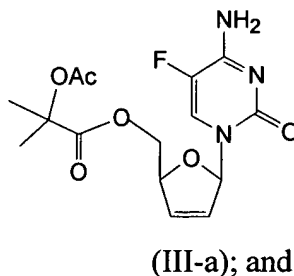
(1) contacting a compound of Formula (I):



with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a compound of Formula (II-a), a compound of Formula (II*-a), or a mixture of compounds of Formula (II-a) and (II*-a):



(2) contacting the compound of Formula (II-a), the compound of Formula (II*-a), or the mixture of compounds of Formula (II-a) and (II*-a); with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III-a):



(3) contacting the compound of Formula (III-a) with a suitable base to form the compound of Formula (IV).

Claim 4 (previously presented): The process of Claim 3 for the preparation of a compound of Formula (IV), wherein:

in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu

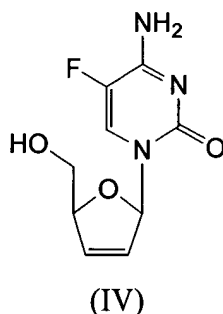
couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

Claim 5 (previously presented): The process of Claim 4 for the preparation of a compound of Formula (IV), wherein:

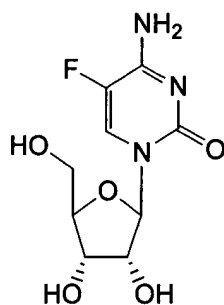
in step (1), the suitable polar aprotic solvent comprises a combination of acetonitrile and ethyl acetate;
in step (2), the suitable reducing agent is Zn-Cu couple;
in step (2), the suitable polar solvent comprises a combination of methanol and ethyl acetate; and
in step (3) the suitable base is sodium methoxide.

Claim 6 (previously presented): The process according to Claim 5, for the preparation of a compound of Formula (IV):



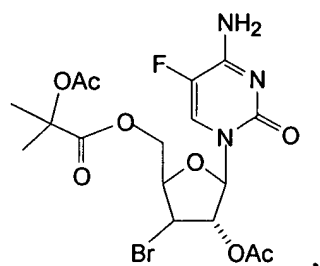
comprising:

(1) contacting a compound of Formula (I):

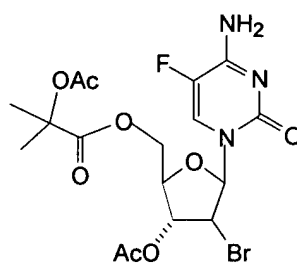


(I)

with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent comprising a combination of acetonitrile and ethyl acetate, wherein the ratio of acetonitrile to ethyl acetate is 1:4; to form a compound of Formula (II-a), a compound of Formula (II*-a), or a mixture of compounds of Formula (II-a) and (II*-a):

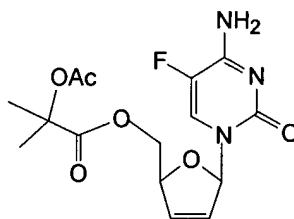


(II-a)



(II*-a)

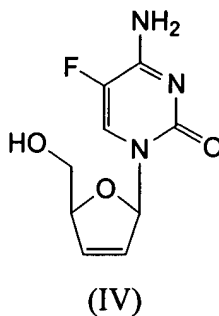
(2) contacting the compound of Formula (II-a), the compound of Formula (II*-a), or the mixture of compounds of Formula (II-a) and (II*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (III-a):



(III-a); and

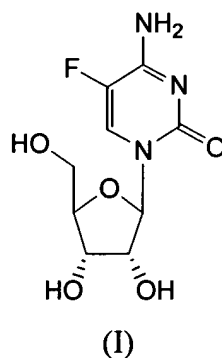
(3) contacting the compound of Formula (III-a) with sodium methoxide to form the compound of Formula (IV).

Claim 7 (previously presented): The process of Claim 1 for the preparation of a compound of Formula (IV):



comprising:

(1) contacting a compound of Formula (I):



with an acyl halide of Formula $Q-C(=O)X$, wherein:

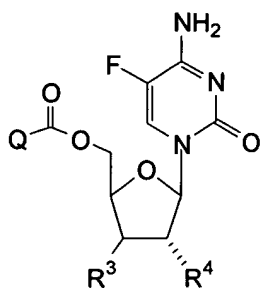
Q is $R^1CH_2C(=O)OC(R^2)_2$;

X is Cl, Br, or I;

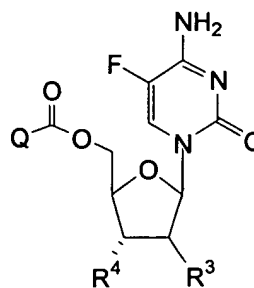
R^1 is H, CH_3 , CH_2CH_3 , or $CH_2CH_2CH_3$;

R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a compound of Formula (II) or a compound of Formula (II*):



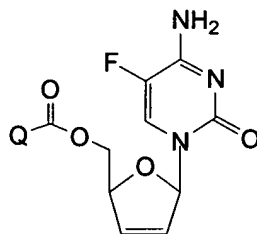
(II)



(II*)

wherein R³ is X; and R⁴ is R¹CH₂C(=O)O-;

(2) contacting the compound of Formula (II) or the compound of Formula (II*) with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III):



(III); and

(3) contacting the compound of Formula (III) with a suitable base to form the compound of Formula (IV).

Claim 8 (previously presented): The process of Claim 7 for the preparation of a compound of Formula (IV), wherein:

in step (1) the acyl halide of Formula Q-C(=O)X comprises:

2-acetoxy-2-methyl-propionyl bromide, 2-(acetoxy)-2-methyl-butanoyl bromide, 2-(acetoxy)-2-ethyl-butanoyl bromide, or 2-(acetoxy)-2-methyl-pentanoyl bromide;

in step (1), the suitable polar aprotic solvent comprises

one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether,

dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

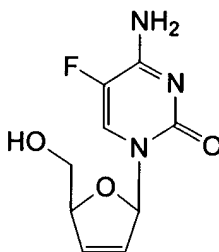
in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises

one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and

in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

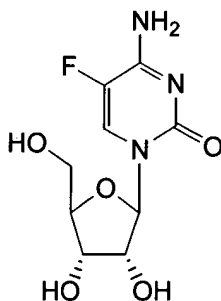
Claim 9 (previously presented): The process according to Claim 7, for the preparation of a compound of Formula (IV):



(IV)

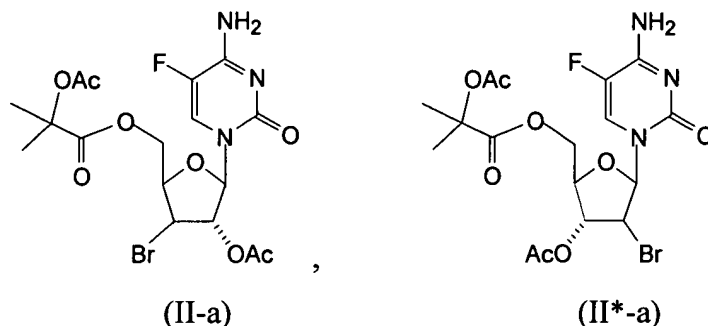
comprising:

(1) contacting a compound of Formula (I):

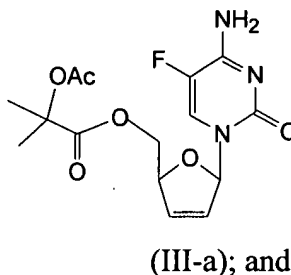


(I)

with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a compound of Formula (II-a) or a compound of Formula (II*-a):



(2) contacting the compound of Formula (II-a) or the compound of Formula (II*-a) with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III-a):



(3) contacting the compound of Formula (III-a) with a suitable base to form the compound of Formula (IV).

Claim 10 (previously presented): The process of Claim 9 for the preparation of a compound of Formula (IV), wherein:

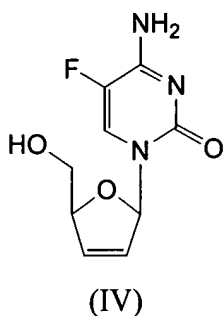
- in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;
- in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

Claim 11 (previously presented): The process of Claim 10 for the preparation of a compound of Formula (IV), wherein:

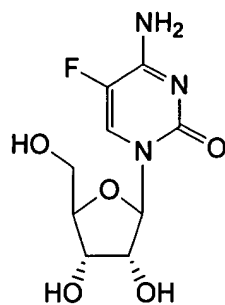
in step (1), the suitable polar aprotic solvent comprises a combination of acetonitrile and ethyl acetate;
in step (2), the suitable reducing agent is Zn-Cu couple;
in step (2), the suitable polar solvent comprises a combination of methanol and ethyl acetate; and
in step (3) the suitable base is sodium methoxide.

Claim 12 (previously presented): process according to Claim 11, for the preparation of a compound of Formula (IV):



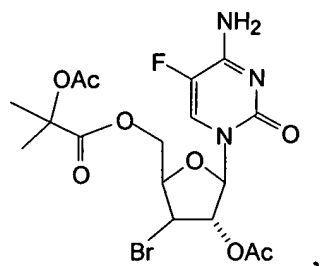
comprising:

(1) contacting a compound of Formula (I):

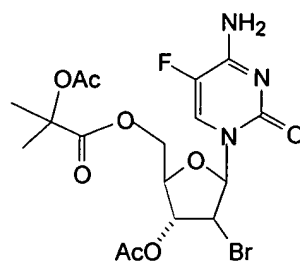


(I)

with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent comprising a combination of acetonitrile and ethyl acetate, wherein the ratio of acetonitrile to ethyl acetate is 1:4; to form a compound of Formula (II-a) or a compound of Formula (II*-a):

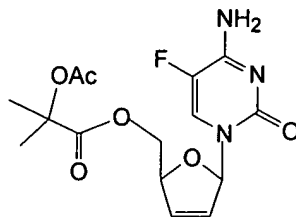


(II-a)



(II*-a)

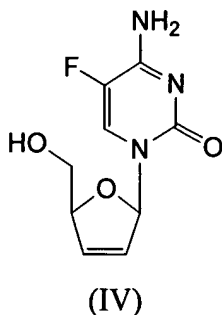
(2) contacting the compound of Formula (II-a) or the compound of Formula (II*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (III-a):



(III-a); and

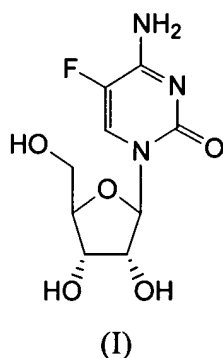
(3) contacting the compound of Formula (III-a) with sodium methoxide to form the compound of Formula (IV).

Claim 13 (previously presented): The process of Claim 1 for the preparation of a compound of Formula (IV):



comprising:

(1) contacting a compound of Formula (I):



with an acyl halide of Formula $Q-C(=O)X$, wherein:

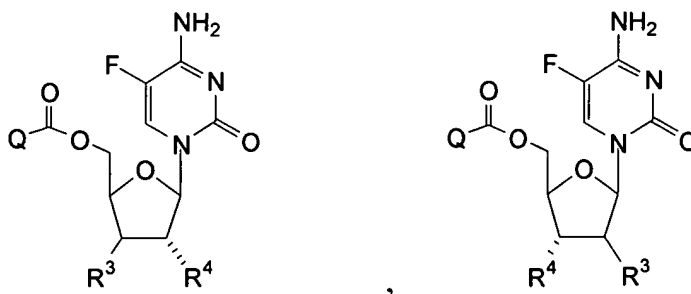
Q is $R^1CH_2C(=O)OC(R^2)_2$;

X is Cl, Br, or I;

R^1 is H, CH_3 , CH_2CH_3 , or $CH_2CH_2CH_3$;

R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a mixture of compounds of Formula (II) and (II*):

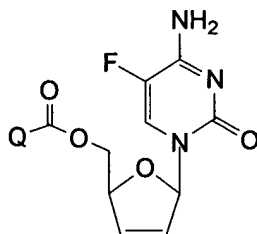


(II)

(II*)

wherein R^3 is X; and R^4 is $R^1CH_2C(=O)O-$;

(2) contacting the mixture of compounds of Formula (II) and (II*) with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III):



(III); and

(3) contacting the compound of Formula (III) with a suitable base to form the compound of Formula (IV).

Claim 14 (previously presented): The process of Claim 13 for the preparation of a compound of Formula (IV), wherein:

in step (1) the acyl halide of Formula $Q-C(=O)X$ comprises:

2-acetoxy-2-methyl-propionyl bromide, 2-(acetoxy)-2-methyl-butanoyl bromide, 2-(acetoxy)-2-ethyl-butanoyl bromide, or 2-(acetoxy)-2-methyl-pentanoyl bromide;

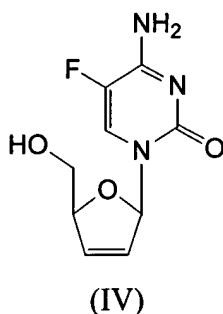
in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate,

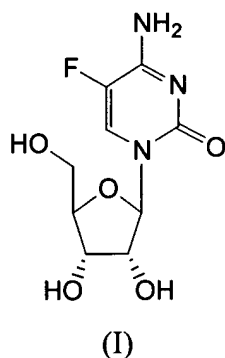
acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

Claim 15 (previously presented): The process according to Claim 13, for the preparation of a compound of Formula (IV):

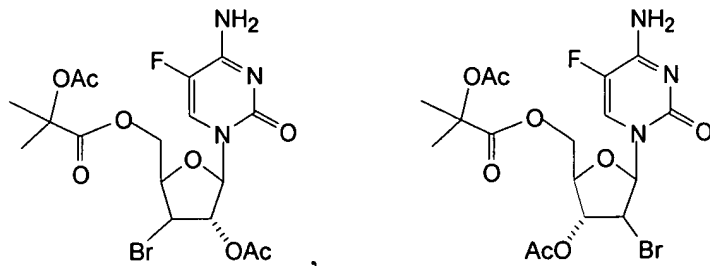


comprising:

(1) contacting a compound of Formula (I):



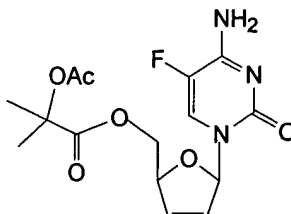
with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a mixture of compounds of Formula (II-a) and (II*-a):



(II-a)

(II*-a)

(2) contacting the mixture of compounds of Formula (II-a) and (II*-a) with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III-a):



(III-a); and

(3) contacting the compound of Formula (III-a) with a suitable base to form the compound of Formula (IV).

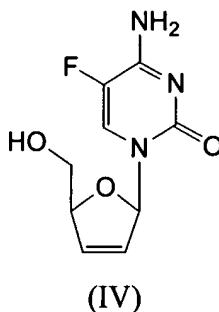
Claim 16 (previously presented): The process of Claim 15 for the preparation of a compound of Formula (IV), wherein:

- in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;
- in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;
- in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and
- in step (3) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

Claim 17 (previously presented): The process of Claim 16 for the preparation of a compound of Formula (IV), wherein:

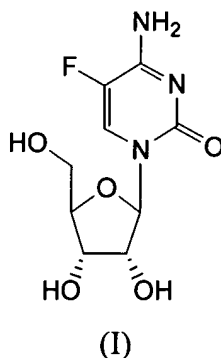
- in step (1), the suitable polar aprotic solvent comprises a combination of acetonitrile and ethyl acetate;
- in step (2), the suitable reducing agent is Zn-Cu couple;
- in step (2), the suitable polar solvent comprises a combination of methanol and ethyl acetate; and
- in step (3) the suitable base is sodium methoxide.

Claim 18 (previously presented): The process according to Claim 17, for the preparation of a compound of Formula (IV):



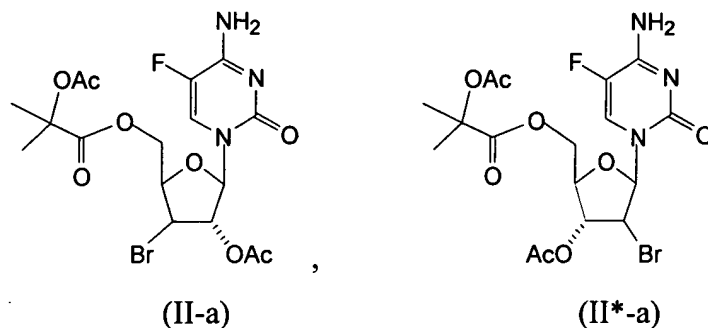
comprising:

- (1) contacting a compound of Formula (I):

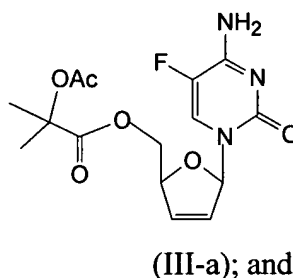


with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent comprising a combination of acetonitrile and ethyl acetate, wherein the ratio of acetonitrile to ethyl acetate is 1:4; to form a mixture of compounds of Formula (II-a) and

(II*-a):

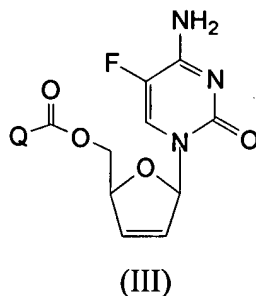


(2) contacting the mixture of compounds of Formula (II-a) and (II*-a) with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (III-a):



(3) contacting the compound of Formula (III-a) with sodium methoxide to form the compound of Formula (IV).

Claim 19 (previously presented): A process for the preparation of a compound of Formula (III):

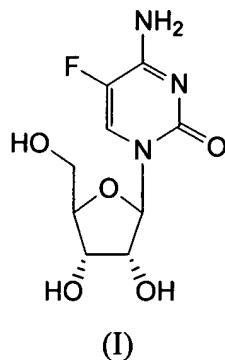


wherein:

Q is 2-(R¹CH₂CO₂)phenyl-, R¹CH₂-, or R¹CH₂C(=O)OC(R²)₂-;
 R¹ is H or C₁-C₆ alkyl;

R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl; comprising:

(1) contacting a compound of Formula (I):



with an acyl halide of Formula $Q-C(=O)X$, wherein:

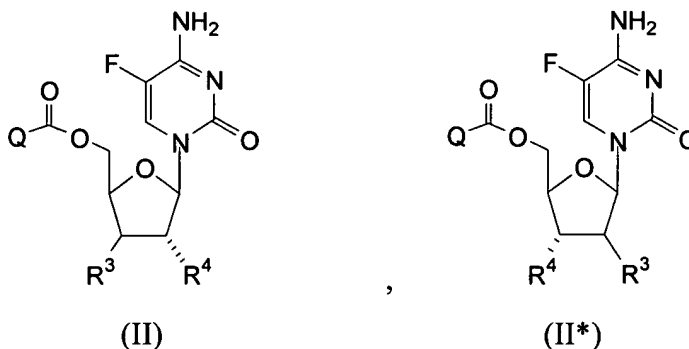
Q is 2- $(R^1CH_2CO_2)$ phenyl-, R^1CH_2- , or $R^1CH_2C(=O)OC(R^2)_2-$;

X is Cl, Br, or I;

R^1 is H or C_1-C_6 alkyl;

R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a compound of Formula (II), a compound of Formula (II*), or a mixture of compounds of Formula (II) and (II*):



wherein R^3 is X; and R^4 is $R^1CH_2C(=O)O-$; and

(2) contacting the compound of Formula (II), the compound of Formula (II*), or the mixture of compounds of Formula (II) and (II*); with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III).

Claim 20 (previously presented): The process of Claim 19 for the preparation of a compound of Formula (III), wherein:

in step (1) the acyl halide of Formula $Q-C(=O)X$ comprises:

2-acetoxy-2-methyl-propionyl bromide, 2-(acetoxy)-2-methyl-butanoyl bromide, 2-(acetoxy)-2-ethyl-butanoyl bromide, or 2-(acetoxy)-2-methyl-pentanoyl bromide;

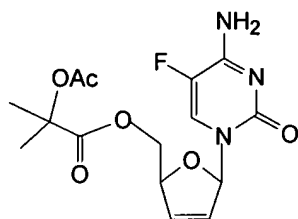
in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

and

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether.

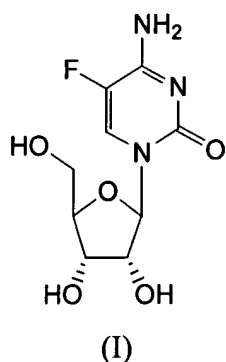
Claim 21 (previously presented): The process according to Claim 19, for the preparation of a compound of Formula (III-a):



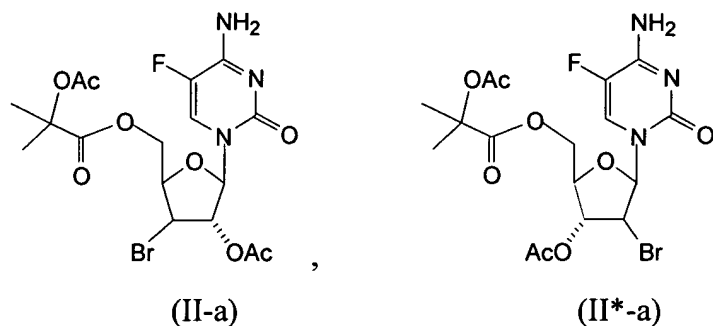
(III-a)

comprising:

(1) contacting a compound of Formula (I):



with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a compound of Formula (II-a), a compound of Formula (II*-a), or a mixture of compounds of Formula (II-a) and (II*-a):



(2) contacting the compound of Formula (II-a), the compound of Formula (II*-a), or the mixture of compounds of Formula (II-a) and (II*-a); with a suitable reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (III-a).

Claim 22 (previously presented): The process of Claim 21 for the preparation of a compound of Formula (III-a), wherein:

- in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;
- in step (2), the suitable reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

and

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether.

Claim 23 (previously presented): The process of Claim 22 for the preparation of a compound of Formula (III-a), wherein:

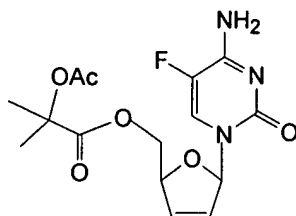
in step (1), the suitable polar aprotic solvent comprises a combination of acetonitrile and ethyl acetate;

in step (2), the suitable reducing agent is Zn-Cu couple;

and

in step (2), the suitable polar solvent comprises a combination of methanol and ethyl acetate.

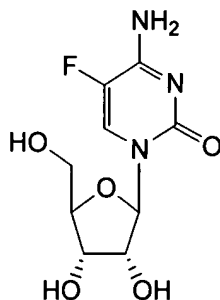
Claim 24 (previously presented): The process according to Claim 23, for the preparation of a compound of Formula (III-a):



(III-a)

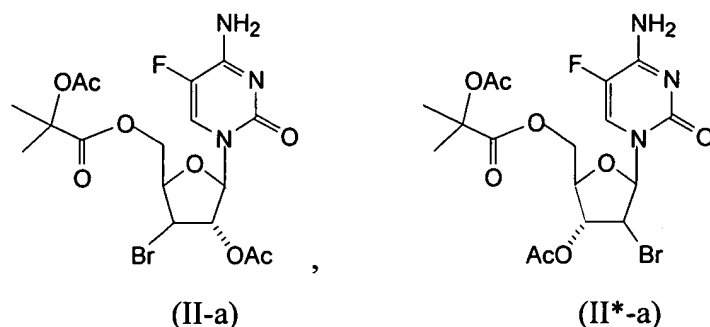
comprising:

(1) contacting a compound of Formula (I):



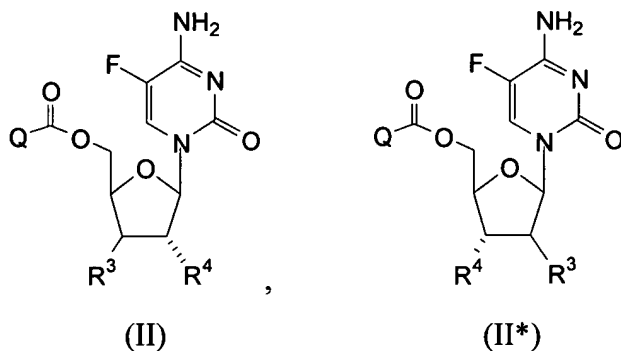
(I)

with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent comprising a combination of acetonitrile and ethyl acetate, wherein the ratio of acetonitrile to ethyl acetate is 1:4; to form a compound of Formula (II-a), a compound of Formula (II*-a), or a mixture of compounds of Formula (II-a) and (II*-a):



(2) contacting the compound of Formula (II-a), the compound of Formula (II*-a), or the mixture of compounds of Formula (II-a) and (II*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (III-a).

Claim 25 (Currently Amended): A compound of Formula (II) or (II*):



or a pharmaceutically acceptable salt thereof, wherein:

in Formula II, Q is R^1CH_2- or $R^1CH_2C(=O)OC(R^2)_2$;

R^1 is H or C_1 - C_6 alkyl, provided that when Q is R^1CH_2- , R^1 is not H;

R^2 is independently selected from methyl, ethyl, and propyl;

R^3 is Cl, Br, or I; and

R^4 is $R^1CH_2C(=O)O-$;

or in Formula II, Q is $R^1CH_2C(=O)OC(R^2)_2-$;

R^1 is H or C_1-C_6 alkyl;

R^2 is independently selected from methyl, ethyl, and propyl;

R^3 is Cl, Br, or I; and

R^4 is $R^1CH_2C(=O)O-$;

and wherein:

in Formula II*,

Q is $R^1CH_2C(=O)OC(R^2)_2-$;

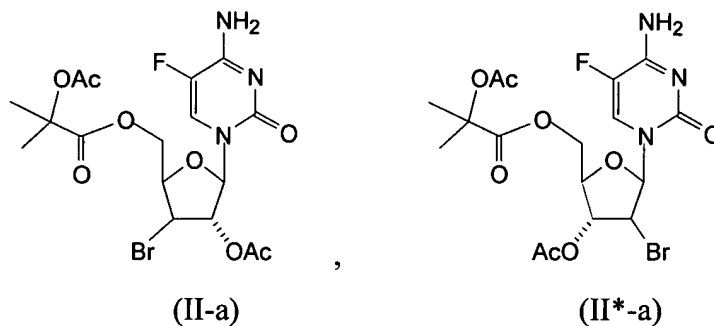
R^1 is H or C_1-C_6 alkyl;

R^2 is independently selected from methyl, ethyl, and propyl;

R^3 is Cl, Br, or I; and

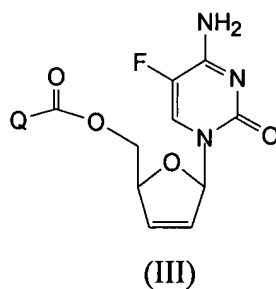
R^4 is $R^1CH_2C(=O)O-$.

Claim 26 (previously presented): A compound of Formula (II-a) or (II*-a):



or a pharmaceutically acceptable salt thereof.

Claim 27 (previously presented): A compound of Formula (III):



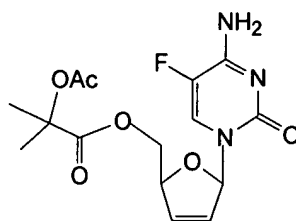
or a pharmaceutically acceptable salt thereof, wherein:

Q is $R^1CH_2C(=O)OC(R^2)_2$;

R^1 is H or C_1 - C_6 alkyl; and

R^2 is independently selected from methyl, ethyl, and propyl.

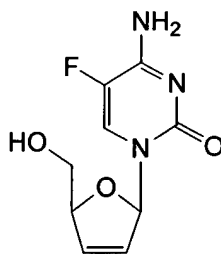
Claim 28 (previously presented): A compound of Formula (III-a):



(III-a)

or a pharmaceutically acceptable salt thereof.

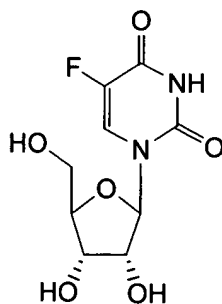
Claim 29 (previously presented): A process for the preparation of a compound of Formula (IV):



(IV)

comprising:

(1) contacting a compound of Formula (IV):



(V)

with an acyl halide of Formula $Q-C(=O)X$, wherein:

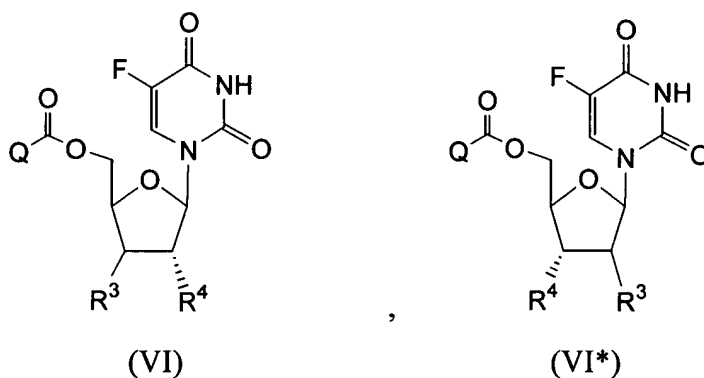
Q is 2- $(R^1CH_2CO_2)$ phenyl-, R^1CH_2- , or $R^1CH_2C(=O)OC(R^2)_2-$;

X is Cl, Br, or I;

R^1 is H or C_1-C_6 alkyl;

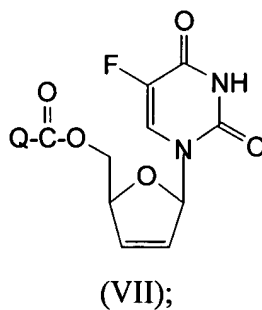
R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a compound of Formula (VI), a compound of Formula (VI*), or a mixture of compounds of Formula (VI) and (VI*):

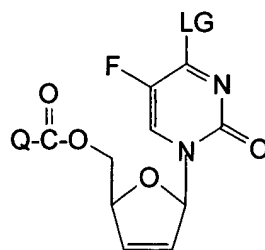


wherein R^3 is X ; and R^4 is $R^1CH_2C(=O)O-$;

(2) contacting the compound of Formula (VI), the compound of Formula (VI*), or the mixture of compounds of Formula (VI) and (VI*); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII):



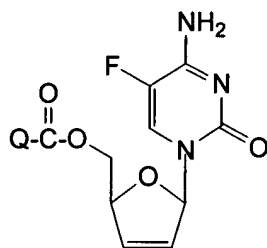
(3a) contacting the compound of Formula (VII) with an activating agent in the presence of an amine base, to form a compound of Formula (VIII):



(VIII)

wherein LG is a leaving group derived from the activating agent;

(3b) contacting the compound of Formula (VIII) with an aminating agent to form a compound of Formula (III),



; and

(III)

(4) contacting the compound of Formula (III) with a suitable base to form the compound of Formula (IV).

Claim 30 (previously presented): The process of Claim 29 for the preparation of a compound of Formula (IV), wherein:

in step (1) the acyl halide of Formula Q-C(=O)X comprises:

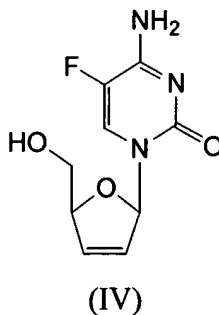
- 2-acetoxy-2-methyl-propionyl bromide,
- 2-(acetoxy)-2-methyl-butanoyl bromide,
- 2-(acetoxy)-2-ethyl-butanoyl bromide, or
- 2-(acetoxy)-2-methyl-pentanoyl bromide;

in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents, and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

- in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;
- in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether;
- in step (3a) the activating agent is selected from the group consisting of:
methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl chloride, benzenesulfonyl chloride,
p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and
triazole/diphenyl chloro-phosphate;
- in step (3a) the amine base is selected from the group consisting of: triethylamine, tributylamine,
N-methylmorpholine, N,N-diisopropyl-ethylamine,
N,N-dimethylcyclohexylamine,
N,N-diethylcyclohexylamine,
N,N-dimethyloctylamine, tetramethylethylenediamine,
pyridine, N,N-dimethyl-aminopyridine,
1,4-diazabicyclo[2.2.2]octane,
1,8-diazabicyclo[5.4.0]undec-7-ene, and
1,5-diazabicyclo[4.3.0]non-5-ene;
- in step (3a) the leaving group LG is selected from the group consisting of
methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy,
benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl;
- in step (3b) the aminating agent is selected
from the group consisting of: NH₃, ammonium hydroxide, and ammonium carbonate; and
- in step (4) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and

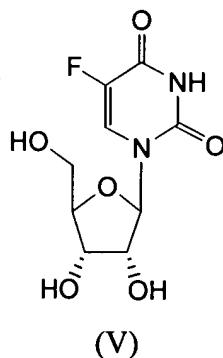
ammonium C₁-C₆ alkoxide.

Claim 31 (previously presented): The process according to Claim 29, for the preparation of a compound of Formula (IV):

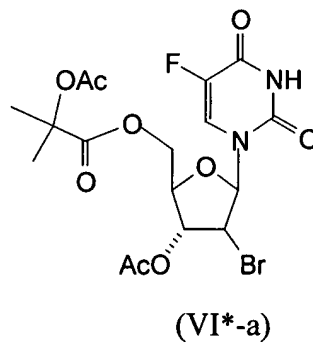
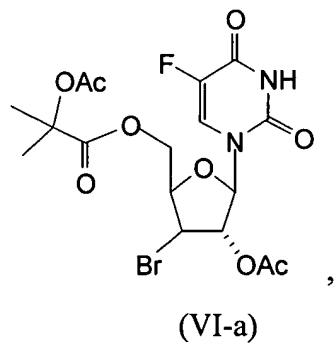


comprising:

(1) contacting a compound of Formula (V):

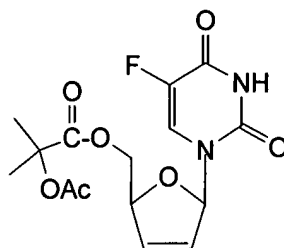


with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a compound of Formula (VI-a), a compound of Formula (VI*-a), or a mixture of compounds of Formula (VI-a) and (VI*-a):



(2) contacting the compound of Formula (VI-a), the compound of Formula (VI*-a), or the

mixture of compounds of Formula (VI-a) and (VI*-a); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII-a):

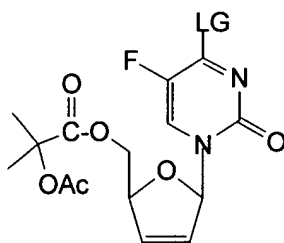


(VII-a);

(3a) contacting the compound of Formula (VII-a) with an activating agent selected from the group consisting of:

- i) an aryl sulfonyl halide,
- ii) an alkyl sulfonyl halide, and
- iii) 1,2,4-triazole in the presence of a phosphorus chloride;

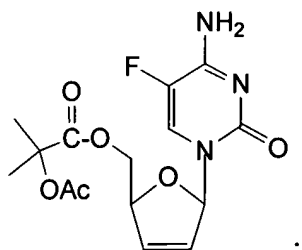
in the presence of an amine base, to form a compound of Formula (VIII-a);



(VIII-a)

wherein LG is a leaving group derived from the activating agent;

(3b) contacting the compound of Formula (VIII-a) with an aminating agent to form a compound of Formula (III-a),



(III-a)

and

(4) contacting the compound of Formula (III-a) with a suitable base to form the compound of Formula (IV).

Claim 32 (previously presented): The process of Claim 31 for the preparation of a compound of Formula (IV), wherein:

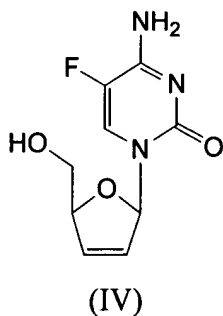
- in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;
- in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;
- in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether;
- in step (3a) the activating agent is selected from the group consisting of:
 - methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl chloride, benzenesulfonyl chloride,
 - p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and triazole/diphenyl chloro-phosphate;
- in step (3a) the amine base is selected from the group consisting of: triethylamine, tributylamine,
 - N-methylmorpholine, N,N-diisopropyl-ethylamine,
 - tetramethylethylenediamine, pyridine,
 - N,N-dimethyl-aminopyridine,
 - 1,4-diazabicyclo[2.2.2]octane, and
 - 1,8-diazabicyclo[5.4.0]undec-7-ene;
- in step (3a) the leaving group LG is selected from the group consisting of
 - methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy,

benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl;
in step (3b) the aminating agent is selected
from the group: NH_3 , ammonium hydroxide, and ammonium carbonate; and
in step (4) the suitable base is selected from the group consisting of: sodium hydroxide,
lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide,
sodium ethoxide, $\text{C}_3\text{-C}_6$ alkyl primary amine, ammonium hydroxide, and
ammonium $\text{C}_1\text{-C}_6$ alkoxide.

Claim 33 (previously presented): The process of Claim 32 for the preparation of a
compound of Formula (IV), wherein:

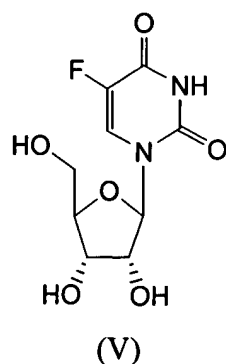
in step (1), the suitable polar aprotic solvent comprises one solvent which is acetonitrile;
in step (2), the reducing agent is Zn-Cu couple;
in step (2), the suitable polar solvent comprises a combination of methanol and ethyl
acetate;
in step (3a) the activating agent is triazole/phosphorus oxychloride;
in step (3a) the amine base is triethylamine;
in step (3a) the leaving group LG is triazolyl;
in step (3b), the aminating agent is NH_3 ; and
in step (4) the suitable base is sodium methoxide.

Claim 34 (previously presented): The process according to Claim 33, for the preparation
of a compound of Formula (IV):

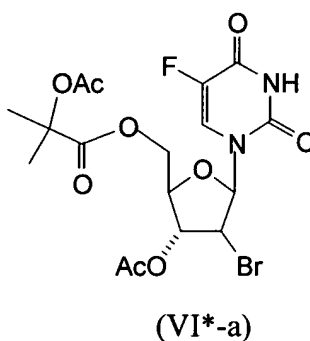
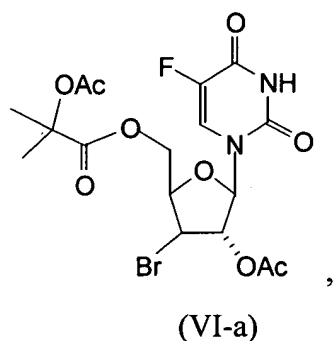


comprising:

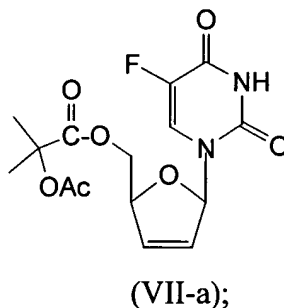
(1) contacting a compound of Formula (V):



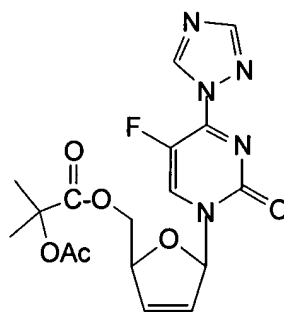
with 2-acetoxy-2-methyl-propionyl bromide in acetonitrile to form a compound of Formula (VI-a), a compound of Formula (VI*-a), or a mixture of compounds of Formula (VI-a) and (VI*-a):



(2) contacting the compound of Formula (VI-a), the compound of Formula (VI*-a), or the mixture of compounds of Formula (VI-a) and (VI*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (VII-a):



(3a) contacting the compound of Formula (VII-a) with 1,2,4-triazole/phosphorus oxychloride, in the presence of triethylamine, to form a compound of Formula (VIII-a):

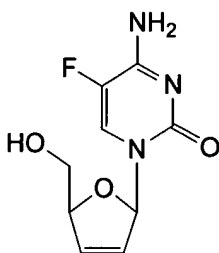


(VIII-a);

(3b) contacting the compound of Formula (VIII-a) with NH_3 , to form a compound of Formula (III-a), and

(4) contacting the compound of Formula (III-a) with sodium methoxide to form the compound of Formula (IV).

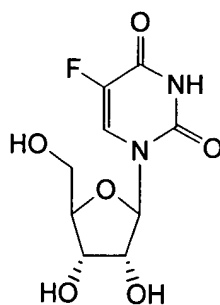
Claim 35 (previously presented): The process of Claim 29 for the preparation of a compound of Formula (IV):



(IV)

comprising:

(1) contacting a compound of Formula (V):



(V)

with an acyl halide of Formula Q-C(=O)X , wherein:

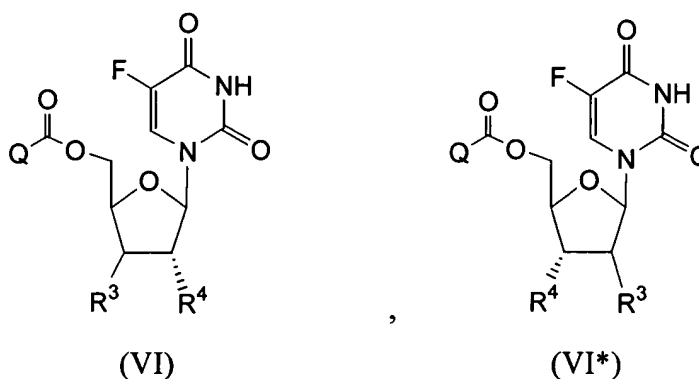
Q is 2-(R¹CH₂CO₂)phenyl-, R¹CH₂-, or R¹CH₂C(=O)OC(R²)₂-;

X is Cl, Br, or I;

R¹ is H or C₁-C₆ alkyl;

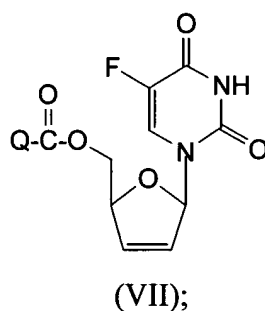
R², at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a mixture of compounds of Formula (VI) and (VI*):

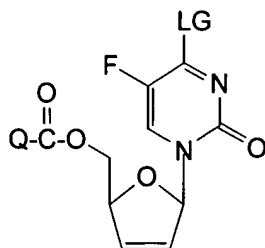


wherein R³ is X; and R⁴ is R¹CH₂C(=O)O-;

(2) contacting the mixture of compounds of Formula (VI) and (VI*); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII):



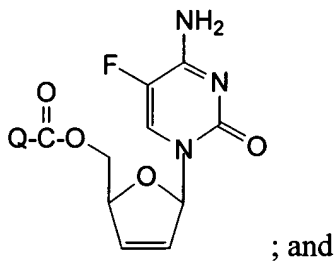
(3a) contacting the compound of Formula (VII) with an activating agent in the presence of an amine base, to form a compound of Formula (VIII):



(VIII)

wherein LG is a leaving group derived from the activating agent;

(3b) contacting the compound of Formula (VIII) with an aminating agent to form a compound of Formula (III),



; and

(III)

(4) contacting the compound of Formula (III) with a suitable base to form the compound of Formula (IV).

Claim 36 (previously presented): The process of Claim 35 for the preparation of a compound of Formula (IV), wherein:

in step (1) the acyl halide of Formula Q-C(=O)X comprises:

2-acetoxy-2-methyl-propionyl bromide,
2-(acetoxy)-2-methyl-butanoyl bromide,
2-(acetoxy)-2-ethyl-butanoyl bromide, or
2-(acetoxy)-2-methyl-pentanoyl bromide;

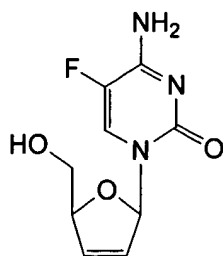
in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents, and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate,

- acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether;
- in step (3a) the activating agent is selected from the group consisting of:
- methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl chloride, benzenesulfonyl chloride,
- p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and triazole/diphenyl chloro-phosphate;
- in step (3a) the amine base is selected from the group consisting of: triethylamine, tributylamine,
- N-methylmorpholine, N,N-diisopropyl-ethylamine,
- N,N-dimethylcyclohexylamine,
- N,N-diethylcyclohexylamine,
- N,N-dimethyloctylamine, tetramethylethylenediamine,
- pyridine, N,N-dimethyl-aminopyridine,
- 1,4-diazabicyclo[2.2.2]octane,
- 1,8-diazabicyclo[5.4.0]undec-7-ene, and
- 1,5-diazabicyclo[4.3.0]non-5-ene;
- in step (3a) the leaving group LG is selected from the group consisting of
- methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy, benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl;
- in step (3b) the aminating agent is selected from the group consisting of: NH₃, ammonium hydroxide, and ammonium carbonate; and
- in step (4) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, C₃-C₆ alkyl primary amine, ammonium hydroxide, and ammonium C₁-C₆ alkoxide.

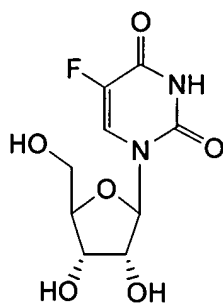
Claim 37 (previously presented): The process according to Claim 35, for the preparation of a compound of Formula (IV):



(IV)

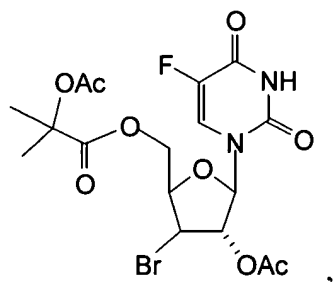
comprising:

(1) contacting a compound of Formula (V):

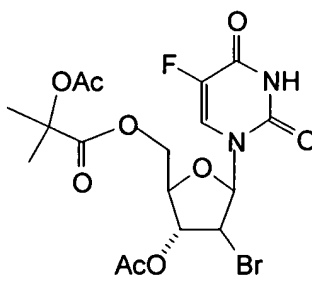


(V)

with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a mixture of compounds of Formula (VI-a) and (VI*-a):

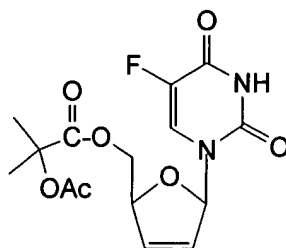


(VI-a)



(VI*-a)

(2) contacting the mixture of compounds of Formula (VI-a) and (VI*-a); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII-a):

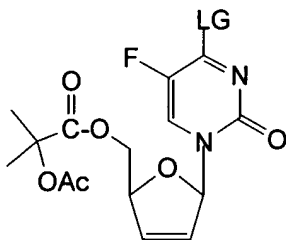


(VII-a);

(3a) contacting the compound of Formula (VII-a) with a
activating agent selected from the group consisting of:

- i) an aryl sulfonyl halide,
- ii) an alkyl sulfonyl halide, and
- iii) 1,2,4-triazole in the presence of a phosphorus chloride;

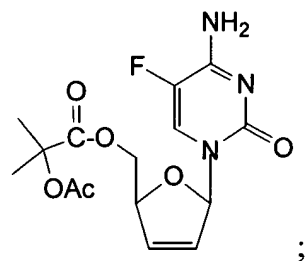
in the presence of an amine base, to form a compound of Formula (VIII-a);



(VIII-a)

wherein LG is a leaving group derived from the activating agent;

(3b) contacting the compound of Formula (VIII-a) with an aminating agent to form a
compound of Formula (III-a),



(III-a)

and

(4) contacting the compound of Formula (III-a) with a suitable base to form the
compound of Formula (IV).

Claim 38 (previously presented): The process of Claim 37 for the preparation of a compound of Formula (IV), wherein:

in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether;

in step (3a) the activating agent is selected from the group consisting of: methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl chloride, benzenesulfonyl chloride, p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and triazole/diphenyl chloro-phosphate;

in step (3a) the amine base is selected from the group consisting of: triethylamine, tributylamine, N-methylmorpholine, N,N-diisopropyl-ethylamine, tetramethylethylenediamine, pyridine, N,N-dimethyl-aminopyridine, 1,4-diazabicyclo[2.2.2]octane, and 1,8-diazabicyclo[5.4.0]undec-7-ene;

in step (3a) the leaving group LG is selected from the group consisting of methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy, benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl;

in step (3b) the aminating agent is selected from the group: NH_3 , ammonium hydroxide, and ammonium carbonate; and

in step (4) the suitable base is selected from the group consisting of: sodium hydroxide, lithium hydroxide, potassium carbonate, sodium carbonate, sodium methoxide, sodium ethoxide, $\text{C}_3\text{-C}_6$ alkyl primary amine, ammonium hydroxide, and ammonium $\text{C}_1\text{-C}_6$ alkoxide.

Claim 39 (previously presented): The process of Claim 38 for the preparation of a compound of Formula (IV), wherein:

in step (1), the suitable polar aprotic solvent comprises one solvent which is acetonitrile;

in step (2), the reducing agent is Zn-Cu couple;

in step (2), the suitable polar solvent comprises a combination of methanol and ethyl acetate;

in step (3a) the activating agent is triazole/phosphorus oxychloride;

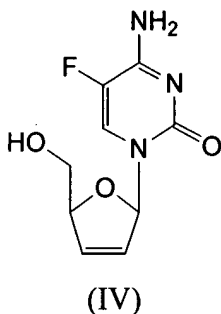
in step (3a) the amine base is triethylamine;

in step (3a) the leaving group LG is triazolyl;

in step (3b), the aminating agent is NH_3 ; and

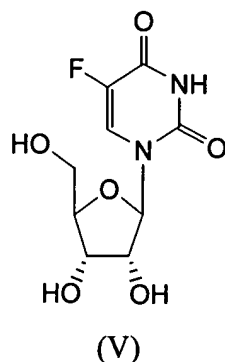
in step (4) the suitable base is sodium methoxide.

Claim 40 (previously presented): The process according to Claim 39, for the preparation of a compound of Formula (IV):

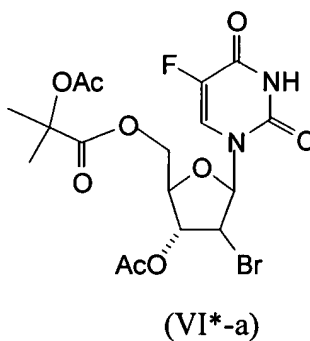
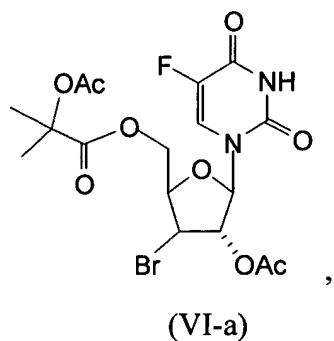


comprising:

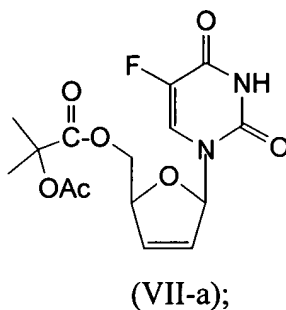
(1) contacting a compound of Formula (V):



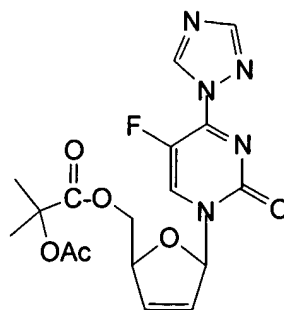
with 2-acetoxy-2-methyl-propionyl bromide in acetonitrile to form a mixture of compounds of Formula (VI-a) and (VI*-a):



(2) contacting the mixture of compounds of Formula (VI-a) and (VI*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4 to form a compound of Formula (VII-a):



(3a) contacting the compound of Formula (VII-a) with 1,2,4-triazole/phosphorus oxychloride, in the presence of triethylamine, to form a compound of Formula (VIII-a):

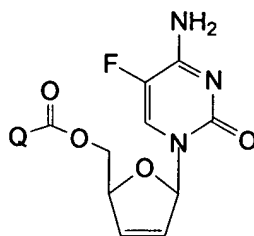


(VIII-a);

(3b) contacting the compound of Formula (VIII-a) with NH₃, to form a compound of Formula (III-a), and

(4) contacting the compound of Formula (III-a) with sodium methoxide to form the compound of Formula (IV).

Claim 41 (previously presented): A process for the preparation of a compound of Formula (III):



(III)

wherein:

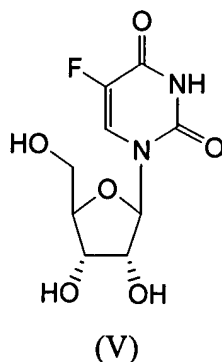
Q is 2-(R¹CH₂CO₂)phenyl-, R¹CH₂-, or R¹CH₂C(=O)OC(R²)₂-;

R¹ is H or C₁-C₆ alkyl;

R², at each occurrence, is independently selected from methyl, ethyl, and propyl;

comprising:

(1) contacting a compound of Formula (V):



with an acyl halide of Formula $Q-C(=O)X$, wherein:

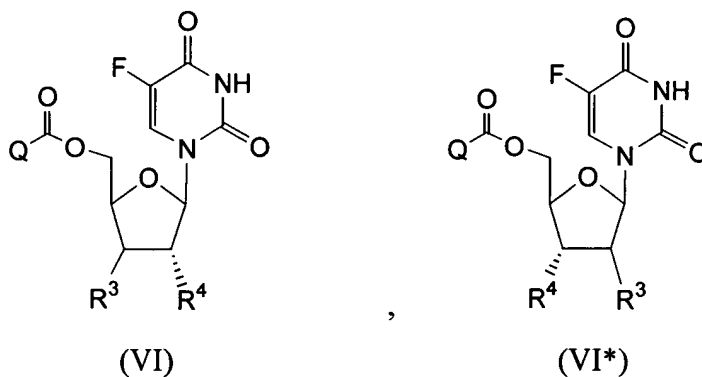
Q is 2-($R^1CH_2CO_2$)phenyl-, R^1CH_2 -, or $R^1CH_2C(=O)OC(R^2)_2$ -;

X is Cl, Br, or I;

R^1 is H or C_1 - C_6 alkyl;

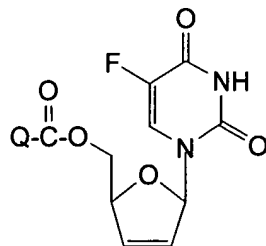
R^2 , at each occurrence, is independently selected from methyl, ethyl, and propyl;

in a suitable polar aprotic solvent to form a compound of Formula (VI), a compound of Formula (VI*), or a mixture of compounds of Formula (VI) and (VI*):



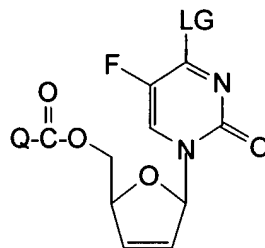
wherein R^3 is X ; and R^4 is $R^1CH_2C(=O)O$ -;

(2) contacting the compound of Formula (VI), the compound of Formula (VI*), or the mixture of compounds of Formula (VI) and (VI*); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII):



(VII);

(3a) contacting the compound of Formula (VII) with an activating agent in the presence of an amine base, to form a compound of Formula (VIII):



(VIII)

wherein LG is a leaving group derived from the activating agent;

(3b) contacting the compound of Formula (VIII) with an aminating agent to form a compound of Formula (III).

Claim 42 (previously presented): The process of Claim 41 for the preparation of a compound of Formula (III), wherein:

in step (1) the acyl halide of Formula $Q-C(=O)X$ comprises:

2-acetoxy-2-methyl-propionyl bromide,
2-(acetoxy)-2-methyl-butanoyl bromide,
2-(acetoxy)-2-ethyl-butanoyl bromide, or
2-(acetoxy)-2-methyl-pentanoyl bromide;

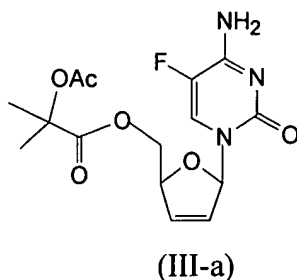
in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;

in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;

in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate,

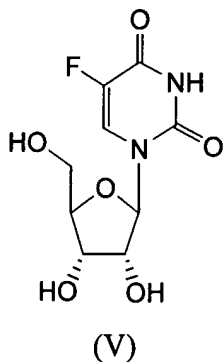
acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether;
in step (3a) the activating agent is selected from the group consisting of:
methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl
chloride, benzenesulfonyl chloride,
p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and
triazole/diphenyl chloro-phosphate;
in step (3a) the amine base is selected from the group consisting of: triethylamine,
tributylamine,
N-methylmorpholine, N,N-diisopropyl-ethylamine,
N,N-dimethylcyclohexylamine,
N,N-diethylcyclohexylamine,
N,N-dimethyloctylamine, tetramethylethylenediamine,
pyridine, N,N-dimethyl-aminopyridine,
1,4-diazabicyclo[2.2.2]octane,
1,8-diazabicyclo[5.4.0]undec-7-ene, and
1,5-diazabicyclo[4.3.0]non-5-ene;
in step (3a) the leaving group LG is selected from the group consisting of
methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy,
benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl;
in step (3b) the aminating agent is selected from the group: NH_3 , ammonium hydroxide,
and ammonium carbonate.

Claim 43 (previously presented): The process according to Claim 41, for the preparation
of a compound of Formula (III-a):

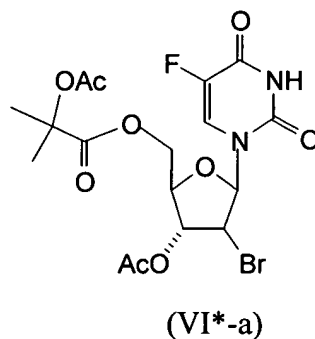
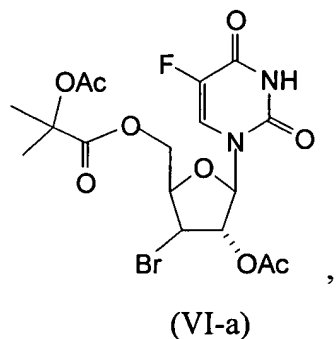


comprising:

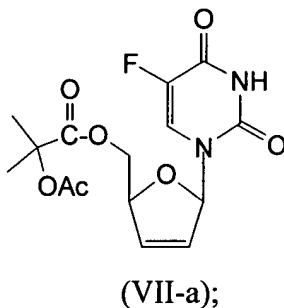
(1) contacting a compound of Formula (V):



with 2-acetoxy-2-methyl-propionyl bromide in a suitable polar aprotic solvent to form a compound of Formula (VI-a), a compound of Formula (VI*-a), or a mixture of compounds of Formula (VI-a) and (VI*-a):



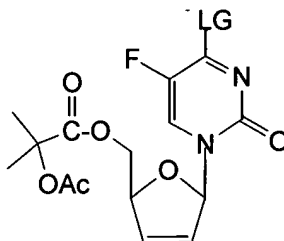
(2) contacting the compound of Formula (VI-a), the compound of Formula (VI*-a), or the mixture of compounds of Formula (VI-a) and (VI*-a); with a reducing agent in a suitable polar solvent, in the absence of an acid catalyst, to form a compound of Formula (VII-a);



(3a) contacting the compound of Formula (VII-a) with a activating agent selected from the group consisting of:

- i) an aryl sulfonyl halide,

- ii) an alkyl sulfonyl halide, and
 - iii) 1,2,4-triazole in the presence of a phosphorus chloride;
- in the presence of an amine base, to form a compound of Formula (VIII-a):



(VIII-a)

wherein LG is a leaving group derived from the activating agent; and
(3b) contacting the compound of Formula (VIII-a) with an aminating agent to form a compound of Formula (III-a).

Claim 44 (previously presented): The process of Claim 43 for the preparation of a compound of Formula (III-a), wherein:

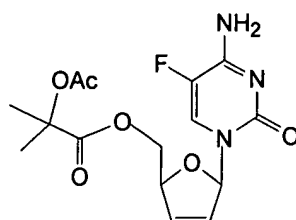
- in step (1), the suitable polar aprotic solvent comprises one polar aprotic solvent or a combination of two or more polar aprotic solvents; and is selected from the group consisting of: methylene chloride, tetrahydrofuran, t-butyl methyl ether, dimethoxy ethane, 2-methoxyethyl ether, dimethylformamide, dimethylacetamide, acetonitrile, ethyl acetate, and isopropyl acetate;
- in step (2), the reducing agent is selected from the group consisting of: Fe, Zn-Cu couple and Zn;
- in step (2), the suitable polar solvent comprises one polar solvent or a combination of two or more polar solvents; and is selected from the group consisting of: methanol, ethanol, propanol, ethyl acetate, propyl acetate, butyl acetate, isopropyl acetate, acetonitrile, tetrahydrofuran, dimethoxy ethane, and 2-methoxyethyl ether; and
- in step (3a) the activating agent is selected from the group consisting of: methanesulfonyl chloride, trifluoromethyl sulfonyl chloride, ethanesulfonyl chloride, benzenesulfonyl chloride, p-toluene-sulfonyl chloride, triazole/phosphorus oxychloride and

triazole/diphenyl chloro-phosphate;
in step (3a) the amine base is selected from the group consisting of: triethylamine,
tributylamine,
N-methylmorpholine, N,N-diisopropyl-ethylamine,
tetramethylethylenediamine, pyridine,
N,N-dimethyl-aminopyridine,
1,4-diazabicyclo[2.2.2]octane, and
1,8-diazabicyclo[5.4.0]undec-7-ene;
in step (3a) the leaving group LG is selected from the group consisting of
methanesulfonyloxy, trifluoromethyl-sulfonyloxy, ethanesulfonyloxy,
benzenesulfonyloxy, toluenesulfonyloxy, and triazolyl; and
in step (3b) the aminating agent is selected from the group: NH_3 , ammonium hydroxide,
and ammonium carbonate.

Claim 45 (previously presented): The process of Claim 44 for the preparation of a
compound of Formula (III-a), wherein:

in step (1), the suitable polar aprotic solvent comprises one solvent which is acetonitrile;
in step (2), the reducing agent is Zn-Cu couple;
in step (2), the suitable polar solvent comprises a combination of methanol and ethyl
acetate;
in step (3a) the activating agent is triazole/phosphorus oxychloride;
in step (3a) the amine base is triethylamine;
in step (3a) the leaving group LG is triazolyl; and
in step (3b), the aminating agent is NH_3 .

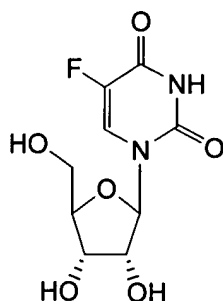
Claim 46 (previously presented): The process according to Claim 45, for the preparation
of a compound of Formula (III-a):



(III-a)

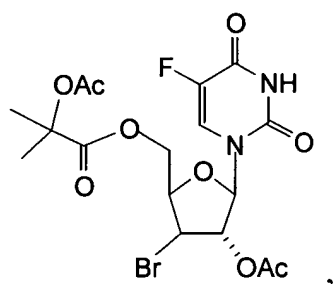
comprising:

(1) contacting a compound of Formula (V):

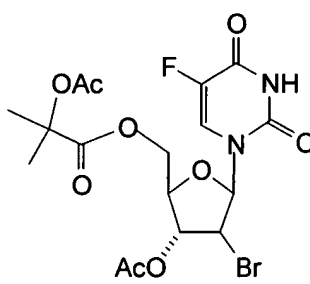


(V)

with 2-acetoxy-2-methyl-propionyl bromide in acetonitrile to form a compound of Formula (VI-a), a compound of Formula (VI*-a), or a mixture of compounds of Formula (VI-a) and (VI*-a):

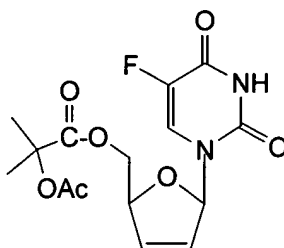


(VI-a)



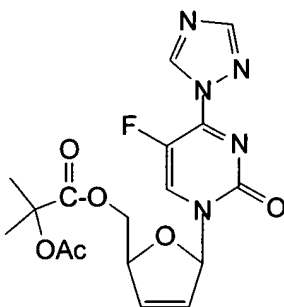
(VI*-a)

(2) contacting the compound of Formula (VI-a), the compound of Formula (VI*-a), or the mixture of compounds of Formula (VI-a) and (VI*-a); with Zn-Cu couple in a suitable polar solvent comprising a combination of methanol and ethyl acetate, wherein the ratio of methanol to ethyl acetate is in the range of 1:2 to 1:4, to form a compound of Formula (VII-a):



(VII-a);

(3a) contacting the compound of Formula (VII-a) with 1,2,4-triazole/phosphorus oxychloride, in the presence of triethylamine, to form a compound of Formula (VIII-a):



(VIII-a);

and

(3b) contacting the compound of Formula (VIII-a) with NH_3 , to form a compound of Formula (III-a).

Claim 47 - 59 (Canceled)

Claim 60 (previously presented): The process of claims 1 or 29 wherein the compound of Formula (IV) is in the form of a β -D-enantiomer.

Claim 61 (previously presented): The process of claims 19 or 41 wherein the compound of Formula (III) is in the form of a β -D-enantiomer.

Claim 62 (previously presented): The compound of claim 25 wherein the compound of Formula (II) or (II*) is in the form of a β -D-enantiomer.

Claim 63 (previously presented): The compound of claim 26 wherein the compound of Formula (II-a) or (II*-a) is in the form of a β -D-enantiomer.

Claim 64 (previously presented): The compound of claim 27 wherein the compound of Formula (III) is in the form of a β -D-enantiomer.

Claim 65 (previously presented): The compound of claim 28 wherein the compound of Formula (III-a) is in the form of a β -D-enantiomer.